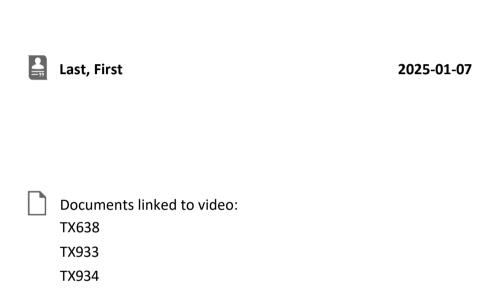
# Somayaji PA DC MERGED

**Designation List Report** 





ID: V5A

UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF CALIFORNIA
COURT EXHIBIT 10
Case No. <u>3:21-cv-03496-AMO</u>
Date Entered
Ву
Deputy Clerk

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DESIGNATION	SOURCE	DURATION	ID
8:12 - 8:23	Last, First 2025-01-07	00:00:22	V5A.1
	8:12 THE REPORTER: Could you raise your right		
	8:13 hand, please.		
	8:14 SHARATHCHANDRA 'SHARK' SOMAYAJI,		
	8:15 sworn as a witness,		
	8:16 testified as follows:		
	8:17 THE REPORTER: Thank you.		
	8:18 You may proceed.		
	8:19 EXAMINATION BY MR. VAN HOVEN:		
	8:20 Q. Good morning, Mr. Somayaji.		
	8:21 How are you?		
	8:22 A. I am good.		
	8:23 You can call me 'Shark,' please.		
14:06 - 14:20	Last, First 2025-01-07	00:00:48	V5A.2
	14:06 When did you start with Intuitive?		
	14:07 A. I started in August 2010.		
	14:08 Q. And that was a as a senior		
	14:09 manufacturing engineer?		
	14:10 A. That is correct.		
	14:11 Q. And is your employment based in Sunnyvale?		
	14:12 A. That's correct.		
	14:13 Q. And what were your responsibilities as a		
	14:14 senior manufacturing engineer?		
	14:15 A. I was primarily responsible for our core		
	14:16 instruments for prior to the Xi launch, which		
	14:17 is Si 8 millimeter instruments, 5 millimeter		
	14:18 instruments. I am a manufacturing engineer, so I		
	14:19 am responsible for ensuring that the lines build		
	14:20 product properly.		
14:25 - 15:10	Last, First 2025-01-07	00:00:28	V5A.3
	14:25 Q. And you were in that role until		
	15:01 August 2012?		
	15:02 A. That is correct.		
	15:03 Q. During the time that you were enrolled as		
	15:04 senior manufacturing engineer		
	15:05 A. Uh-huh.		
	15:06 Q did you only work with Si instruments?		
	15:07 A. That is correct.		
	15:08 Q. And at some point later in time did you		
	15:09 work with Xi instruments?		

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DESIGNATION	SOURCE	DURATION	I D
	15:10 A. That is correct.		
19:11 - 19:15	Last, First 2025-01-07	00:00:12	V5A.15
	19:11 Q. So you don't really know anything about		
	19:12 the programming of the Si instruments in your role	<u> </u>	
	19:13 as a mechanic, as a manufacturing engineer during	5	
	19:14 that time?		
	19:15 A. No. I am a mechanical engineer.		
23:15 - 23:24	Last, First 2025-01-07	00:00:36	V5A.4
	23:15 Q. And in April 2021, you became a senior		
	23:16 director of manufacturing engineering?		
	23:17 A. That is correct.		
	23:18 Q. How does that role compare to your		
	23:19 previous role as director of NPI engineering?		
	23:20 A. Let me explain the role.		
	23:21 As the senior director of manufacturing		
	23:22 engineering, I am in charge or responsible for our		
	23:23 entire instruments and accessories manufacturing		
	engineering aspects for our Xi and Si portfolio.		
91:19 - 91:23	Last, First 2025-01-07	00:00:21	V5A.5
<b>ℱ</b> TX933.1	91:19 Q. All right. Mr. Somayaji, I'm going to		
	91:20 load as Exhibit 216, Tab 23 in your binder. I'll		
	91:21 represent that this is Intuitive-00991241.		
	91:22 (Plaintiff's Exhibit No. 216 Marked for		
	91:23 Identification.)		
92:14 - 93:08	Last, First 2025-01-07	00:01:11	V5A.6
	92:14 Q. Does this this appear to be another		
	92:15 response to Sumona Adhya's e-mail regarding		
	92:16 Cadiere has passed 30 SSUs?		
	92:17 A. That's correct.		
	92:18 Q. In here, you ask, 'do we need marketing		
	92:19 buy off or are we set to go?'		
	92:20 Do you see that?		
	92:21 A. That's correct.		
	92:22 Q. What is 'marketing'?		
	92:23 A. The 'marketing' I'm referring to here is		
<b>Ø</b> TX933.1.3	92:24 product marketing. There are two names on that		
	92:25 e-mail, Todd Tourand and Jenacyn Nicholson. They	1	
	93:01 were the product marketing managers for single		
	93:02 port instruments.		

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		V3A - 30mayaji FA DC WENGED	ı	
DESIGNATION	SOURCE		DURATION	ID
	93:03	I'm referring to them.		
	93:04 Q.	And so you are referring to whether you		
	93:05	needed buy off from them or whether you could be		
	93:06	set to go based on the engineering results?		
	93:07 A.	That is what the e-mail says; that's		
Clear	93:08	correct.		
93:12 - 93:25	Last, First	2025-01-07	00:00:42	V5A.16
<b>ℱ</b> TX934.1	93:12 Q.	I'm bringing up Tab 27, which is		
	93:13	Exhibit 217, and I'll represent it is		
	93:14	Intuitive-00999076.		
	93:15 A.	That's an e-mail from Shark on		
	93:16	September 6th, 2019?		
	93:17 Q.	That's correct.		
	93:18	(Plaintiff's Exhibit No. 217 Marked for		
	93:19	Identification.)		
	93:20	BY MR. VAN HOVEN:		
<b>Ø</b> TX934.1.1	93:21 Q.	And you see there's an original e-mail		
	93:22	from Andrew Penfold to yourself?		
	93:23 A.	That's correct.		
	93:24	Let me quickly read through it.		
	93:25 Q.	Yup.		
94:01 - 94:04	Last, First	2025-01-07	00:00:13	V5A.17
	94:01 A.	Yes, I'm ready.		
	94:02 Q.	Do you see that there's a reference to		
_	94:03	'extended lives'?		
Clear	94:04 A.	That's correct. I see it.		
94:05 - 94:14	Last, First	2025-01-07	00:00:29	V5A.7
	94:05 Q.	Do you recall there being a project to		
	94:06	have extended lives for certain da Vinci		
	94:07	instruments?		
	94:08 A.	Yes.		
	94:09 Q.	Do you know if extended lives were ever		
	94:10	implemented for Si instruments?		
	94:11 A.	Not to my memory.		
	94:12 Q.	Were extended lives implemented for some		
	94:13	Xi instruments?		
	94:14 A.	That's correct.		
94:15 - 95:25	Last, First	2025-01-07	00:01:49	V5A.18
		And do you understand that to be what		

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DESIGNATION	SOURCE		DURATION	ID
	94:16	Mr. Penfold is referring to in this e-mail,		
	94:17	extended lives for Xi instruments?		
	94:18 A	a. That is correct. I was part of a team		
	94:19	that was getting the extended lives for Xi		
	94:20	instruments, and Andrew was asking me questions.		
	94:21 C	Q. And your role on that team was to provide		
	94:22	manufacturing, engineering input to the extended		
	94:23	lives for Xi instruments project?		
	94:24 A	a. That's correct.		
<b>F</b> TX934.1.3	94:25 C	Q. And Mr. Penfold asked if there'd be any		
	95:01	manufacturing cost savings per instrument.		
	95:02	Do you see that?		
	95:03 A	A. Yes, I do.		
<b>Ø</b> TX934.1.2	95:04 C	And you respond that: 'Unfortunately		
	95:05	there will be no savings from materials due to		
	95:06	increased lives.'		
	95:07 A	a. That is correct.		
	95:08 C	). What was what did you mean by 'there		
	95:09	will be no savings from materials' there?		
	95:10 A	a. Uh-huh. So Andrew is asking, by		
	95:11	increasing the number of lives of instruments,		
	95:12	does that change the cost structure of the		
	95:13	instruments, like does it make it cheaper.		
	95:14	And I said unfortunately, there is no		
	95:15	reduction in the cost of instruments.		
	95:16 C	). Why is that?		
	95:17 A	a. The way I understand economics or economy		
	95:18	of scale works, so the more you build or the more		
	95:19	you buy, the less it costs at least a little		
	95:20	bit, up to a certain when you increase the		
	95:21	number of lives of instruments, the total quantity		
	95:22	of instruments I bill will be lower. So all the		
	95:23	materials that are going into the instrument will		
_	95:24	actually get more expensive. They will not get		
🔀 Clear	95:25	cheaper.		
98:10 - 98:19	Last, Firs	t 2025-01-07	00:00:38	V5A.8
	98:10 C	). Were there any changes required to the		
	98:11	RFID tag for the extended use program?		
	98:12 A	. The same RFID tag was used for extended		
	98:13	use instrument as the pre-extended use instrument		

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	V3A - 30IIIAYAJI FA DE IVIENGED		
DESIGNATION	SOURCE	DURATION	I D
	98:14 Q. Were there any changes to the data that		
	98:15 was stored into the RFID tags for the extended use		
	98:16 instruments?		
	98:17 A. That is correct.		
	98:18 So the number of lives definitely had to		
	98:19 change as part of the extended life program.		
102:17 - 103:08	Last, First 2025-01-07	00:00:54	V5A.9
	102:17 Q. Does the manufacturing cost increase or		
	102:18 change for an extended life instrument?		
	102:19 A. So you'll have to clarify the question		
	102:20 there.		
	102:21 Q. What's unclear?		
	102:22 A. What is manufacturing cost?		
	102:23 Like, I can nerd up for an hour about		
	102:24 manufacturing cost, so		
	102:25 Q. Sure. Have you heard of the term COGS, or		
	103:01 cost of goods sold?		
	103:02 A. Okay. Good. Cost of goods, like which is		
	103:03 the actual material cost, like the this is the		
	103:04 physical component cost for extended life		
	instrument, I would expect them to be really close		
	to the non-extended life instrument.		
	103:07 Q. And what about labor costs to manufacture		
	103:08 them?		
103:10 - 103:12	Last, First 2025-01-07	00:00:06	V5A.10
	103:10 THE WITNESS: The labor cost I would say		
	103:11 would be really close to non-extended life		
	103:12 instrument.		
108:24 - 109:15	Last, First 2025-01-07	00:00:57	V5A.11
	108:24 Q. Is the chip of the Si instrument that		
	108:25 includes the use counter different than the chip		
	109:01 of an Xi instrument that includes a use counter?		
	109:02 A. That's correct.		
	109:03 Q. What are those differences?		
	109:04 A. We're getting into more nerding		
	109:05 nerding.		
	109:06 So, the Si instrument has something called		
	109:07 a Dallas chip, Dallas one-wire chip sorry, Kim,		
	109:08 I'll be slow have a Dallas one-wire chip. And		
	109:09 they have four mechanical pins called pogo pins.		

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DESIGNATION	SOURCE	DURATION	ID
	109:10 These are pins that move in and out, that make the		
	109:11 connection to the robot. They have a physical		
	109:12 connection. They don't have power source. They		
	need to talk to the robot to deliver power, and		
	then they need to communicate to the robot through	gh	
	the physical mechanical pogo pins.		
109:19 - 110:03	Last, First 2025-01-07	00:00:34	V5A.12
	109:19 In case of Xi instruments, we have an RFID		
	109:20 chip which does not have any electrical or		
	109:21 mechanical connection other than it is talking		
	through RF energy to the robot.		
	109:23 BY MR. VAN HOVEN:		
	109:24 Q. Got it.		
	109:25 And is it your understanding that there's		
	110:01 different encryption used on the Si Dallas chip		
	110:02 versus the Xi RFID chip?		
	110:03 A. That is correct.		
112:19 - 112:23	Last, First 2025-01-07	00:00:13	V5A.13
	112:19 I'll represent that the label, that the		
	112:20 Bates number is Intuitive-00999771.		
	112:21 This is a somewhat long e-mail.		
	112:22 (Plaintiff's Exhibit No. 220 Marked for		
	112:23 Identification.)		
122:18 - 123:17	Last, First 2025-01-07	00:01:15	V5A.14
	122:18 Q. Do you see the next sentence in the		
	e-mail chain that you are copied on, starting with		
<b>ℱ</b> TX638.2.2	122:20 'Not sure'?		
	122:21 A. 'Not sure,' correct.		
	122:22 I read that, yes.		
	122:23 Q. Do you see it states that the Microchip		
	122:24 employee 'seemed to be suggesting that there may	,	
	be opportunity to hack the chip we use'?		
	123:01 A. Yes.		
	123:02 Q. Do you have an understanding of what it		
	123:03 would be referring to to be hacking the chip you		
	123:04 use?		
	123:05 A. Yes.		
	123:06 Q. What's your understanding?		
	123:07 A. My understanding would be trying to break		
	into the RFID chip and the encryption.		

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DESIGNATION	SOURCE		DURATION	ID
	123:09	End of the day, these are all encryptions.		
	123:10	So encryptions have a computer limit,		
	123:11	right? Like, there is processing power that's		
	123:12	needed, and you have to try combinations. And I		
	123:13	am thinking they are saying there's an opportunity		
	123:14	to hack into our RFID chip. Doesn't mean it's		
	123:15	done, but that's true for all cryptography, right?		
	123:16	Like, any encryption can be end of the day		
🔀 Clear	123:17	broken.		

Documents linked to video:
TX638
TX933
TX934